

WHAT IS CLAIMED IS:

1. A method for summarizing a news video content based on a news article, comprising the steps of:

a) dividing the news video content on the basis of a news article unit;

b) extracting an anchor key frame, an episode key frame and a text key frame associated with a corresponding news article from the news video content divided on the basis of news article units; and

c) indexing the anchor key frame, the episode key frame and the text key frame as summary elements for representing the news article.

2. The method as set forth in claim 1, further comprising the steps of:

d) extracting a news icon as an element for summarizing the news article as well as the anchor key frame, the episode key frame and the text key frame; and

e) storing the extracted news icon as an image to generate a news icon key frame;

wherein the generated news icon key frame is used as an additional summary element for summarizing the news article.

3. The method as set forth in claim 1 or claim 2,

wherein the anchor key frame is extracted from an anchor shot of the news article.

4. The method as set forth in claims 1 or claim 2, wherein the episode key frame is extracted from an episode scene within the news article and represents the episode scene.

5. The method as set forth in claims 1 or claim 2, wherein the text key frame is a summary that key texts scattered in the news article and representative of contents of the news article are synthesized in an image.

6. An article-based news video content browsing interface characterized in that it summarizes a plurality of news articles in a news video content to create image lists using summary elements including an anchor key frame, an episode key frame and a text key frame, and displays a whole of the news video content summarized on the basis of a news article unit on a display area.

7. The browsing interface as set forth in claim 6, wherein the browsing interface extracts a news icon as an element for summarizing each of the news articles as well as the anchor key frame, the episode key frame and the text key

frame, and stores the extracted news icon as an image to generate a news icon key frame such that the generated news icon key frame is used as an additional summary element for summarizing each of the news articles.

5           8. The browsing interface as set forth in claim 6 or claim 7, wherein the anchor key frame is extracted from an anchor shot of each of the news articles.

10           9. The browsing interface as set forth in claims 6 or claim 7, wherein the episode key frame is extracted from an episode scene within each of the news articles to represent the episode scene.

15           10. The browsing interface as set forth in claims 6 or claim 7, wherein the text key frame is a summary that key texts scattered in each of the news articles and representative of contents of each news article are synthesized in an image.

20           11. The browsing interface as set forth in claims 6 or claim 7, wherein the browsing interface is displayed in such a way that the summary elements of each of the news articles are arranged in a corresponding part of the display area.

12. The browsing interface as set forth in claim 11, wherein the news articles are arranged on one axis of abscissa and ordinate axes of the display area, and summary elements of each news article are arranged on the other axis.

5 13. An article-based news video content browsing system comprising:

means for providing summarized news video contents for each news article using summary elements including an anchor key frame, an episode key frame and a text key frame;

means for displaying summary contents of the news video content summarized using the summary elements;

input means for enabling a user to browse and select the news article using the display means; and

means for playing a specific news article using the display means if the news article is selected by the user.

14. The browsing system as set forth in claim 13, wherein the summary elements include a news icon as well as the anchor key frame, the episode key frame and the text key frame, wherein the news icon is extracted to summarize each news article and stored as an image to generate a news icon key frame, and wherein the generated news icon key frame is used as an additional summary element for summarizing each of the news articles.

15. The browsing system as set forth in claim 13 or claim 14, wherein the anchor key frame is extracted from an anchor shot of each of the news articles, wherein the episode key frame is extracted from an episode scene within each of the news articles to represent the episode scene, and wherein the text key frame is a summary that key texts scattered in each of the news articles are synthesized in an image.

16. The browsing system as set forth in claim 13 or claim 14, wherein the browsing interface represented by the display means divides a display area for each news article, and wherein the browsing interface is implemented as an arrangement of the summary elements for each of the news articles in a corresponding part of each display area.

17. The browsing system as set forth in claim 13 or claim 14, wherein the video content is presented from a play reopening start position that is a beginning position of the selected news article when user requests a play of selected news article.

18. An article-based news video content browsing system comprising:

means for summarizing a news video content by arranging

information representing at least one news article of the news video content together with information summarizing contents of the news article;

means for providing a user with summarized contents of the news article as a browsing interface; and

means for playing and displaying a specific section the user wants to get from the provided browsing interface.

19. The browsing system as set forth in claim 18, wherein any one of the information representing an article of the news video or summary information of the news video is generated by performing any one of selection or combination operation with respect to at least one of an anchor key frame, an episode key frame, a text key frame and a news icon.